

22 mai

Work Order ID 159946

159946

Page 1

Wednesday, April 19, 2017 4:07:34 PM

Item ID: D407-627-013 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: 407 Heli-Utility-Pod™ - RH
Start Date: 5/15/2017 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 5/23/2017 Req'd Qty: 1.00 *1* Customer:
Reference: SCHEDULED/C

Approvals: Process Plan: [Signature] Date: APR 19 2017 Tooling: Date: Run Start *NR1*
QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI9428	A								

100

100

DC

Doc.Control -USB or Paperwork

DOCUMENT CONTROL

Memo

Photocopy blue file & create labels per PPP D407-627-013 CHG006/ DSI9518

0.00

0.00

DAS
28
9-89

MAY 23 2017

110

110

Packaging

Packaging

Packaging

Memo

Apply label D2851-154 & D2853 per PPP D407-627-013

0.00

0.00

DAS

27

9-89

MAY 04 2017

120

120

QC

Quality Control

QC4- 100% Inspect kits for completeness

Memo

0.00

0.03

DAS
28
9-89

MAY 23 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 159946

Wednesday, April 19, 2017 4:07:34 PM

159946

Page 2

Item ID: D407-627-013 Accept ***N900040100*** Setup Start ***NS1***
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Item Name: 407 Heli-Utility-Pod™ - RH
Start Date: 5/15/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 5/23/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference: SCHEDULED/C

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D407-627-013/ DSI 9518								
	Location: _____								
	PPP Rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.10							
Quality Control									

DAS
28
9-89

MAY 23 2017

DAS
21
9-89

MAY 23 2017

MAY 23 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Wednesday, April 19, 2017 4:07:34 PM

Page 1

Work Order ID: 159946

159946

Parent Item: D407-627-013

D407-627-013

Parent Item Name: 407 Heli-Utility-Pod™ - RH

Start Date: 5/15/2017

Required Date: 5/23/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:E Added Labels EC 01-07-10
IPP Rev:F 09-01-16 added D3863-1 as per ECN09-501 DD verified
by:ec IPP Rev:G as per DSI
9518 DD 10.05.03 verified :EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN3-5A *AN3-5A* Bolt		Purchased	No			110	Each	331.0000	6	6			
									**		DAS 0 9-89	MAY 04 2017	DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					FP001			6					
					m136182			6					
					GA			250					
					m136986			250					
					ST350			75					
					m136182			75		6			
D2694 *D2694* Pod, 350/407		Manufactured	No			110	Each	0.0000	1	1			
									**		B132210		DAS 27 9-89
D2851-154 *D2851-154* Label		Manufactured	No			110	Each	10.0000	1	1			
									**		DAS 0 9-89	MAY 04 2017	DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					Mezz			10					
					121917			10					
D2852 *D2852* Label		Manufactured	No			110	Each	2.0000	1	1			
									**		DAS 0 9-89	MAY 04 2017	DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					ST012			2					
					140727			2					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
QC / QA Coordinator Approval									

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

Picklist Print

Wednesday, April 19, 2017 4:07:34 PM

Page 2

Work Order ID: 159946

159946

Parent Item: D407-627-013

D407-627-013

Parent Item Name: 407 Heli-Utility-Pod™ - RH

Start Date: 5/15/2017

Required Date: 5/23/2017

Start Qty: 1.00

Required Qty: 1.00

D2853
D2853
Label

Manufactured No

110 Each

44.0000

1 1

**

DAS
0
9-89

MAY 04 2017
DAS
27
9-89

Location

Loc Qty

Loc Code

Mezz

44

11332

44

D3863-1
D3863-1
Tube

Manufactured No

110 Each

1.0000

1 1

**

MAY 04 2017
DAS
27
9-89

Location

Loc Qty

Loc Code

ST053

1

151346

1

D407-301-011
D407-301-011
Center Bracket

Manufactured No

110 Each

0.0000

1 1

**

MAY 04 2017
DAS
27
9-89

D407-302-011
D407-302-011
Outboard Bracket

Manufactured No

110 Each

0.0000

1 1

**

MAY 04 2017

DAS
0
9-89
DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By _____	
								Lead hand / Supervisor Approval Verification _____	
								QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : _____									

Picklist Print

Wednesday, April 19, 2017 4:07:34 PM

Work Order ID: 159946

159946

Parent Item: D407-627-013

D407-627-013

Parent Item Name: 407 Heli-Utility-Pod™ - RH

Start Date: 5/15/2017

Required Date: 5/23/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L3 Purchased No

110 Each 2,180.000 6 6

MS21042L3

Nut

**

DAS
8
9-89

MAY 06 2017

DAS
27
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
FP001	100	
m135945	100	
GA	168	
m134360	102	
M136665	66	
OVER007	1300	
m134360	0	
M136665	300	
m137321	1000	6
ST303	612	
m137073	112	
m137166	500	

NAS1149D0363J Purchased No

110 Each 1,025.000 6 6

NAS1149D0363J

Washer

**

DAS
8
9-89

MAY 06 2017

DAS
27
9-89

DAS
28
1-89

Location	Loc Qty	Loc Code
GA	42	
m134055	42	
ST260a	100	
m137061	100	
ST263	883	
m137164	883	6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____					
Misidentified ☐	Past Due ☐						

DART SERVICE INSTRUCTION
TO AMEND INSTALLATION INSTRUCTIONS IIN-D407-627 REV. D AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
ICA-D407-627 REV. 1 & ICA-D407-663 REV 0

REF:
TCCA STC SH00-28
TCCA STC SH98-57
FAA STC SR01246NY
FAA STC SR01364NY

THE PURPOSE OF THIS DSI IS TO PROTECT THE MANUAL CARGO RELEASE CABLE ON AIRCRAFT EQUIPPED WITH A CARGO HOOK AND THE D407-627-013 HELI-UTILITY POD OR D407-663-011 HELI-UTILITY BASKET.

THE DSI 9428-011 CABLE CONNECTION GUARD KIT HAS BEEN INCORPORATED INTO D407-663-011 HELI-UTILITY BASKET KITS AT CHG 003 AND SUBSEQUENT AND D407-627-013 HELI-UTILITY POD KITS AT CHG 005 AND SUBSEQUENT. OPERATORS WHO HAVE D407-663-011 HELI-UTILITY BASKET KIT CHG 002 AND EARLIER OR D407-627-013 HELI-UTILITY POD KIT CHG 004 AND EARLIER MAY ORDER THE DSI 9428-011 CABLE CONNECTION GUARD KIT.

THE DSI 9428-011 CABLE CONNECTION GUARD KIT INCLUDES QTY (1) D3863-1 GUIDE. THE D3863-1 GUIDE IS TO BE INSTALLED OVER THE MANUAL CARGO HOOK RELEASE CABLE WHERE IT PASSES THE CENTER OF THE D2796 SUPPORT ARM OF THE BASKET/POD. THE D3863-1 GUIDE IS INTENDED TO PREVENT THE MANUAL RELEASE CABLE CONNECTION FROM BEING CAUGHT ON THE EDGE OF THE HOLE IN THE D2796 SUPPORT ARM SHOULD A MIS-ALIGNMENT EXIST.

THE DSI 9428-011 CABLE CONNECTION GUARD MAY BE INSTALLED AFTER THE D2796 SUPPORT ARM HAS BEEN INSTALLED AS FOLLOWS:

- 1) DISCONNECT THE MANUAL RELEASE CABLE AT THE CONNECTION POINT UNDER THE BELLY OF THE HELICOPTER.
- 2) SLIDE THE D3863-1 GUIDE OVER THE CABLE.
- 3) RECONNECT THE CABLE.
- 4) POSITION THE D3863-1 GUIDE SO THAT IT IS CENTERED ON THE MANUAL RELEASE CABLE CONNECTION.

SEE FIGURE 1 FOR DETAILS.

PARTS LIST

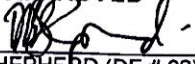
ITEM	QTY -011	PART NUMBER	DESCRIPTION
1	X	DSI 9428-011	CABLE CONNECTION GUARD KIT
5	1	D3863-1	GUIDE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 159946

APR 19 2017

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 08.12.01
CERT. NO.: SH00-28/SH98-57
ISSUE NO.: 1 / 2

A	NEW ISSUE	BY	08.12.01
REV	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED	ASS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9428	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		CABLE CONNECTION GUARD	NTS
DATE	08.12.01	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

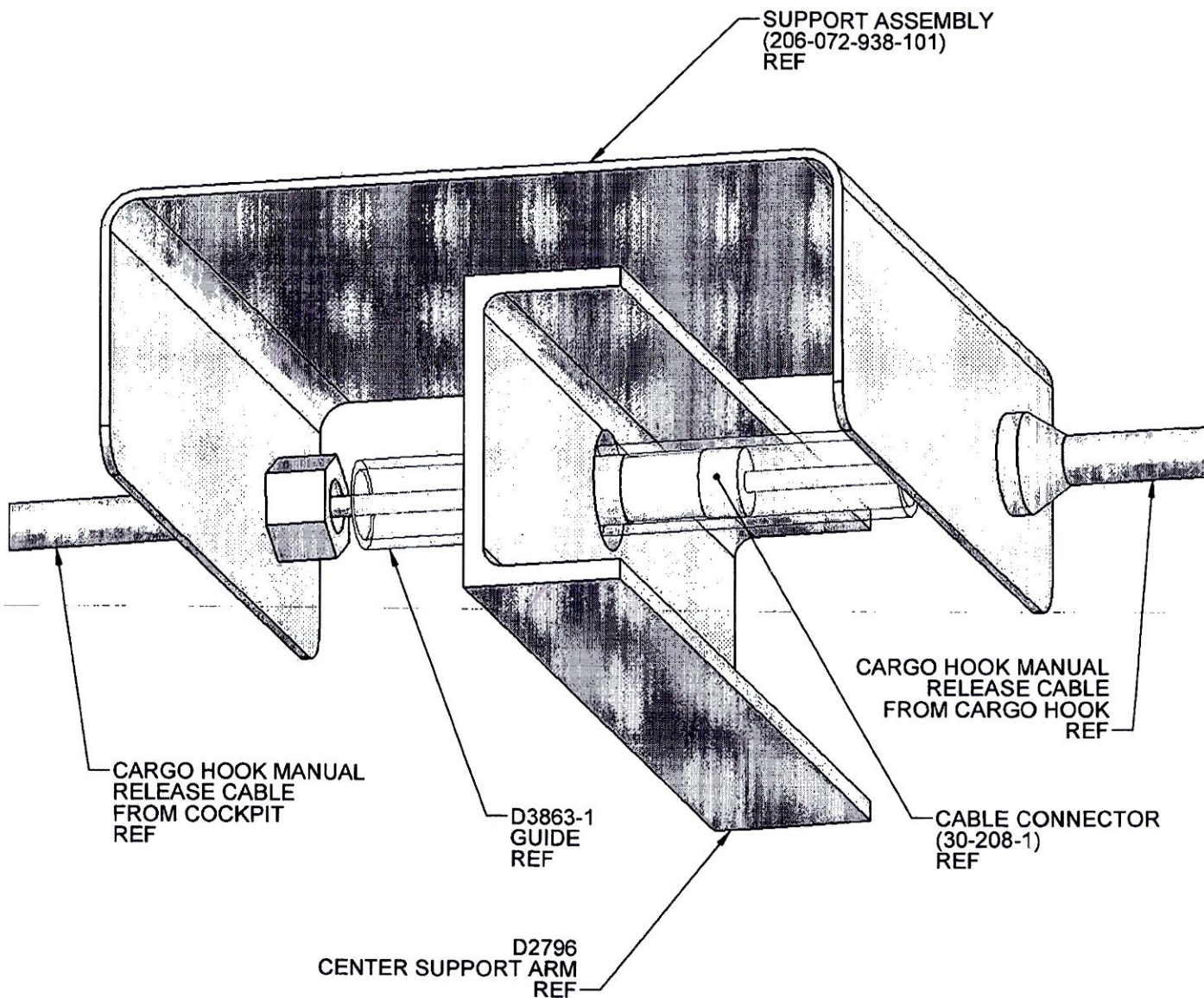


FIGURE 1
D3863-1 GUIDE INSTALLATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 08.12.01
CERT. NO.: SH00-28/SH98-57
ISSUE NO.: 1 / 2

DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9428	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		CABLE CONNECTION GUARD	NTS
DATE	08.12.01	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Work Order ID 159946

159946

Page 1

Wednesday, April 19, 2017 4:07:34 PM

Item ID: D407-627-013 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: 407 Heli-Utility-Pod™ - RH

Start Date: 5/15/2017 Start Qty: 1.00 *1*

Required Date: 5/23/2017 Req'd Qty: 1.00 *1*

Reference: SCHEDULED/C

Approvals: Process Plan:  Date: APR 19 2017 Tooling: Date: Run Start *NR1*

QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
100	DOCUMENT CONTROL	0.00							
100									
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy blue file & create labels per PPP D407-627-013 CHG006/ DSI9518								
110	Packaging	0.00							
110									
Packaging	Memo	0.00							
Packaging	Apply label D2851-154 & D2853 per PPP D407-627-013								
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

CB

17-05-01

REFERENCE ONLY**5. WEIGHT AND BALANCE**

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D407-627-013	53.3 lb	41.6 in	2217.3 in-lb	115.75 in	6169.5 in-lb
Heli-Utility-Pod™ Installation	24.2 kg	1.06 m	25.62 m-kg	2.94 m	71.15 m-kg

6. PARTS LIST

Qty D407- 627-013	Qty D407- 301-011	Qty D407- 302-011	Part Number	Description
X			D407-627-013	HELI-UTILITY-POD™ INSTALLATION
1	X		D407-301-011	CENTER BRACKET KIT (3), 206L/L1/L3/L4/407
1		X	D407-302-011	OUTBOARD BRACKET KIT (3), 206L/L1/L3/L4/407
1			D2694	UTILITY POD ASSEMBLY
6			AN3-5A	BOLT
6			AN960JD10	WASHER
6			MS21042-3	BOLT (OR MS21042L3)
1			D2852	PLACARD
1			D2851-154	PLACARD
1			D2853	PLACARD
	2		D2764	CROSS BEAM
	1		D2796	MIDDLE CROSS BEAM
	6		AN4-13A	BOLT
	6		AN960JD416	WASHER
	6		MS21042-4	NUT (OR MS21042L4)
		2	D2012-107	CLEVIS
		4	D2022-101	SPACERS
		6	D2690-5	LANYARD ASSEMBLY
		3	D2846	SUPPORT ARM
		12	D2847	LUG
		1	D2848	STRUT
		6	BLBS-020	PIP PIN (OR BLRS-020, OR BLC4BA15S, OR BLC4RA15S)
		6	AN3-5A	BOLT
		2	AN4-10A	BOLT
		1	AN4-14A	BOLT
		11	AN4-17A	BOLT
		1	AN4-20A	BOLT
		18	AN960JD10	WASHER
		15	AN960JD416	WASHER
		6	MS21042-3	NUT (OR MS21042L3)
		15	MS21042-4	NUT (OR MS21042L4)

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D407-627 REV. D AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
ICA-D407-627 REV. 1 & ICA-D407-663 REV 0

REF:
TCCA STC SH00-28
TCCA STC SH98-57
FAA STC SR01246NY
FAA STC SR01364NY

REFERENCE ONLY

THE PURPOSE OF THIS DSI IS TO PROTECT THE MANUAL CARGO RELEASE CABLE ON AIRCRAFT EQUIPPED WITH A CARGO HOOK AND THE D407-627-013 HELI-UTILITY POD OR D407-663-011 HELI-UTILITY BASKET.

THE DSI 9428-011 CABLE CONNECTION GUARD KIT HAS BEEN INCORPORATED INTO D407-663-011 HELI-UTILITY BASKET KITS AT CHG 003 AND SUBSEQUENT AND D407-627-013 HELI-UTILITY POD KITS AT CHG 005 AND SUBSEQUENT. OPERATORS WHO HAVE D407-663-011 HELI-UTILITY BASKET KIT CHG 002 AND EARLIER OR D407-627-013 HELI-UTILITY POD KIT CHG 004 AND EARLIER MAY ORDER THE DSI 9428-011 CABLE CONNECTION GUARD KIT.

THE DSI 9428-011 CABLE CONNECTION GUARD KIT INCLUDES QTY (1) D3863-1 GUIDE. THE D3863-1 GUIDE IS TO BE INSTALLED OVER THE MANUAL CARGO HOOK RELEASE CABLE WHERE IT PASSES THE CENTER OF THE D2796 SUPPORT ARM OF THE BASKET/POD. THE D3863-1 GUIDE IS INTENDED TO PREVENT THE MANUAL RELEASE CABLE CONNECTION FROM BEING CAUGHT ON THE EDGE OF THE HOLE IN THE D2796 SUPPORT ARM SHOULD A MIS-ALIGNMENT EXIST.

THE DSI 9428-011 CABLE CONNECTION GUARD MAY BE INSTALLED AFTER THE D2796 SUPPORT ARM HAS BEEN INSTALLED AS FOLLOWS:

- 1) DISCONNECT THE MANUAL RELEASE CABLE AT THE CONNECTION POINT UNDER THE BELLY OF THE HELICOPTER.
- 2) SLIDE THE D3863-1 GUIDE OVER THE CABLE.
- 3) RECONNECT THE CABLE.
- 4) POSITION THE D3863-1 GUIDE SO THAT IT IS CENTERED ON THE MANUAL RELEASE CABLE CONNECTION.

SEE FIGURE 1 FOR DETAILS.

PARTS LIST

ITEM	QTY -011	PART NUMBER	DESCRIPTION
1	X	DSI 9428-011	CABLE CONNECTION GUARD KIT
5	1	D3863-1	GUIDE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)

DATE: 08.12.01
CERT. NO.: SH00-28/SH98-57
ISSUE NO.: 1 / 2

A	NEW ISSUE	BY	08.12.01
REV	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED	AJS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9428	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		CABLE CONNECTION GUARD	NTS
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